

IN THE CLAIMS:

Please cancel Claims 1-8, 10-17, 26-34 and 36-38 without prejudice.

Please amend Claim 35 as follows:

35. (Amended) A method of identifying a chemical which specifically binds to a polypeptide having at least one biological activity of a GABA B receptor said method comprising:

exposing a purified and/or isolated polypeptide comprising an amino acid sequence which has at least 70% identity with a sequence of SEQ ID NO: 2, SEQ ID NO: 4 or SEQ ID NO: 6 or a host cell stably transformed or transfected with a purified, isolated nucleic acid with a sequence having at least 70% identity with a sequence of SEQ ID NO:1, SEQ ID NO: 3 or SEQ ID NO: 5 to a chemical or to a mixture of chemicals under conditions permitting interaction of said chemical with said polypeptide, and determining the chemical specifically binding to said polypeptide.

Please add the following claims:

--39. The method of Claim 35, wherein said amino acid sequence has at least 80% identity with a sequence of SEQ ID NO: 2, SEQ ID NO: 4 or SEQ ID NO: 6.

40. The method of Claim 39, wherein said amino acid sequence has at least 90% identity with a sequence of SEQ ID NO: 2, SEQ ID NO: 4 or SEQ ID NO: 6.

41. The method of Claim 35, wherein the nucleotide sequence of said nucleic acid has at least 70% identity with a sequence of SEQ ID NO: 1, SEQ ID NO: 3 or SEQ ID NO: 5.

42. The method of Claim 41, wherein said nucleotide sequence of said nucleic acid has at least 80% identity with a sequence of SEQ ID NO: 1, SEQ ID NO: 3 or SEQ ID NO: 5.

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and

43. The method of Claim 42, wherein said nucleotide sequence of said nucleic acid has at least 90% identity with a sequence of SEQ ID NO: 1, SEQ ID NO: 3 or SEQ ID NO: 5.

44. The method of Claim 43, wherein said nucleotide sequence of said nucleic acid has at least 95% identity with a sequence of SEQ ID NO: 1, SEQ ID NO: 3 or SEQ ID NO: 5.

45. The method of Claim 35, wherein said amino acid sequence has at least 70% identity with a sequence of SEQ ID NO: 2.

46. The method of Claim 36, wherein said amino acid sequence has at least 80% identity with a sequence of SEQ ID NO: 2.

47. The method of Claim 37, wherein said amino acid sequence has at least 90% identity with a sequence of SEQ ID NO: 2.--
